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OIL SEAL DEVICE FOR AXIAL SHAFT

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ABSTRACT

PURPOSE: To retain superior sealing performance in spite of mutual eccentricity of an axial shaft and an axial housing due to irregularity in processing and assembling of an oil seal device for aperture in radial direction between the axial shaft and an opening in the end of the axial housing.

CONSTITUTION: A roller bearing 46 is fixed around the circumference of an axial shaft 22 on its internal surface of an inner race 48 and the inner and outer circumferences of an ring rubber 58 are fixed around the outer circumference of the outer race 50 of the roller bearing 46 and the inner circumference of an axial housing 24 respectively. An oil seal 56 is in sliding contact with the outer circumference of the inner race 48 in its ring lip 57 on the inner circumference thereof, and fixed around the inner circumference of the outer race 50 on its outer circumference, and seals a gap between the inner race 48 and the outer race 50 on the outer side of the roller row 54 of the roller bearings 46 as for the axial direction of the axial shaft 22.

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